

OBJECT POSITION DETECTOR WITH EDGE MOTION FEATURE**Patent number:** EP0777875**Publication date:** 1997-06-11**Inventor:** ALLEN TIMOTHY P (US); FAGGIN FEDERICO (US); GILLESPIE DAVID (US); MILLER ROBERT J (US)**Applicant:** SYNAPTICS INC (US)**Classification:**- **International:** G06F3/033; G06K11/16- **European:****Application number:** EP19950932384 19950901**Priority number(s):** WO1995US11177 19950901; US19940300630 19940902**Also published as:**

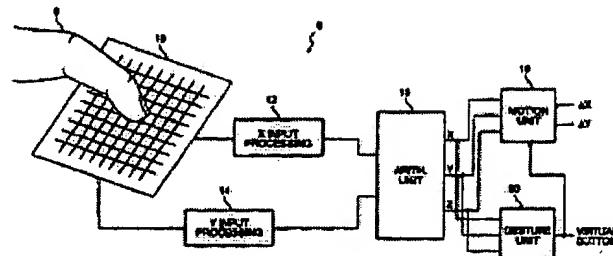
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Abstract not available for EP0777875

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A proximity sensor system includes a sensor matrix array having a characteristic capacitance on horizontal and vertical conductors connected to sensor pads. The capacitance changes as a function of the proximity of an object or objects to the sensor matrix. The change in capacitance of each node in both the X and Y directions of the matrix due to the approach of an object is converted to a set of voltages in the X and Y directions. These voltages are processed by circuitry to develop electrical signals representative of the centroid of the profile of the object, i.e., its position in the X and Y dimensions. Noise reduction and background level setting techniques inherently available in the architecture are employed. The speed of the cursor movement depends on the one of the display it resides.

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